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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/735,119	12/11/2003	Stephen M. Dershem	QUANT1350-1 1929 (028248-2302)		
7590 04/19/2006			EXAMINER		
Steven C. Bauman			SANDERS, KRIELLION ANTIONETTE		
HENKEL CORPORATION					
1001 Trout Brook Crossing			ART UNIT	PAPER NUMBER	
Legal Departm	ent	1714			
Rocky Hill, CT 06067			DATE MAILED: 04/19/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

				/ _
Office Action Summary		Application No.	Applicant(s)	
		10/735,119	DERSHEM ET AL.	
		Examiner	Art Unit	
		Kriellion A. Sanders	1714	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	I. lety filed the mailing date of this communication. 0. (35 U.S.C. § 133)	
Status				
1)🛛	Responsive to communication(s) filed on 03 Fe	ebruary 2006.		
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.		
3) 🗌	Since this application is in condition for allowar			
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Dispositi	ion of Claims			
5) □ 6) ⊠ 7) □ 8) □	Claim(s) <u>36-48</u> is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>36-48</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine	vn from consideration. r election requirement.		
_	The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
		ammer. Note the attached Office	Action of form PTO-152.	
12) [a) [Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received I (PCT Rule 17.2(a)).	on No d in this National Stage	
2) 🔲 Notic 3) 🔲 Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claim 36 is rejected under 35 U.S.C. 102(e), as being clearly anticipated by Ishida et al, US Patent No. 6207786.
- 3. The patented disclosure teaches an adhesive comprising a benzoxazine in liquid form. The epoxy into which the benzoxazine is mixed is liquid and thermosetting. A cure initiator is also used. See col. 7, line 28 through col. col. 8, line 19 and claims 1-16.
- 4. Claim 36 is rejected under 35 U.S.C. 102(e), as being clearly anticipated by Davis et al, US Patent No. 6906120.
- 5. Applicant's benzoxazine thermosetting resin and curing agent are set forth therein. See claim 1.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 7. Claims 36-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davis et al, US Patent No. 6906120.
- 8. Davis discloses a composition of benzoxazine, polyarylene ether, curing agent and optional adjuvants as well as the use of the composition as an adhesive for metal substrates including copper. Applicant's claimed method is considered obvious over the disclosure of the reference, which suggests each parameter of applicant's process steps. The ordinary practitioner would be advised as to which substrates are electrically or thermally conductive, particularly in the manufacture of circuit boards or other electronic parts. Davis discloses circuit boards. See col. 9, line 43 through col. 11, line 5.
- 9. Claims 36-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davis et al, US Patent No. 6906120 as applied to claims 36-47 and further in view of Dershem et al., US Patent Nos. 6034194 or 6034195.

Davis et al. recognizes that polyimide resins may be used in the compositions of the patented invention. See col. 11, line 39 through col. 12, line 55. Dershem et al. indicates specifically that maleimides of the disclosed formulae are suitable for making adhesive compositions with high flexibility and low moisture uptake. It would have been obvious to one of ordinary skill in the art to employ the maleimides of Dersham et al. '194 or '195 as those polyimides suggested by Davis et al. for formulating adhesive compositions.

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- 1. Applicant's arguments filed 2/03/06 have been fully considered but they are not persuasive. In regards to the rejections under 35 USC 102, applicant argues that Ishida et al requires the use of a phenolic resin not required by applicant and that Davis requires the use of poly(arylenether) resin not required by applicant. These arguments have not been found to be persuasive in that applicant's use of the term, "comprising", allows for the inclusion of additional substances in the claimed compositions. Therefor the phenolic resin of Ishida et al and the poly(arylenether) resin of Davis are not seen to be omitted from applicant's claims.
- 2. Applicant further avers that does not include a limitation to the materials that are adhered together having different coefficients of thermal expansion. However, because the patented and presently claimed inventions possess the same components such a property for those components is considered to be inherent to the components because a component and its properties cannot be separated.
- 3. As to the rejection under 35 USC 103, applicant has pointed out where he finds the Dersham references to be deficient. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See In re McLaughlin, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

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Information Disclosure Statement

References cited in an IDS must include a month and year of publication to be considered for printing upon the face of the patent.

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kriellion A. Sanders whose telephone number is 571-272-1122. The examiner can normally be reached on Monday through Thursday 6:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kriellion A. Sanders Primary Examiner Art Unit 1714